Amendments to the Claims

The following Listing of Claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (original): A system for managing a plurality of distributed nodes of a network, comprising:

a recovery module configured to migrate from one network node to another, determine a status of a network node, and initiate a recovery process on a failed network node.

Claim 2 (currently amended): The system of claim 1, wherein the recovery module comprises a routing component for determining [[a]] next hop ~~address~~ addresses for migrating the recovery module from an origin network node to a series of successive destination network nodes ~~node~~.

Claim 3 (currently amended): The system of claim 2, wherein the routing component is configured to determine the next hop addresses ~~address~~ based upon a routing table stored at the origin network node.

Claim 4 (original): The system of claim 1, wherein the recovery module is configured to determine the status of a network node by sending an inter-process communication to a node process.

Claim 5 (original): The system of claim 1, wherein the recovery module is configured to determine the status of a network node in accordance with a heartbeat messaging protocol.

Claim 6 (original): The system of claim 1, wherein the recovery module is configured to initiate a recovery process on a failed network node in accordance with a restart protocol.

Claim 7 (original): The system of claim 6, wherein the recovery module is configured to initiate a restart of a failed node process by transmitting a request to a process execution service operating on the failed network node.

Claim 8 (original): The system of claim 1, wherein the recovery module is configured to transmit a node status message to a network management module operating at a network management network node.

Claim 9 (original): The system of claim 8, wherein the node status message comprises information obtained from a log file generated at the failed network node.

Claim 10 (original): The system of claim 1, further comprising a network management module configured to launch a plurality of recovery modules into the network.

Claim 11 (currently amended): A method for managing a plurality of distributed nodes of a network, comprising:

~~migrating from one network node to another;~~

(a) on a current one of the network nodes, determining a status of the current [[a]] network node; [[and]]

(b) in response to a determination that the current network has failed, initiating a recovery process on the current ~~a failed~~ network node;

(c) migrating from the current network node to a successive one of the network nodes; and

(d) repeating (a), (b), and (c) with the current network node corresponding to the successive network node for each of the nodes in the network.

Claim 12 (original): The method of claim 11, wherein migrating from one network node to another comprises determining a next hop address from an origin network node to a destination network node.

Claim 13 (original): The method of claim 12, wherein the next hop address is determined based upon a routing table stored at the origin network node.

Claim 14 (original): The method of claim 11, wherein the status of a network node is determined by sending an inter-process communication to a node process.

Claim 15 (original): The method of claim 11, wherein the status of a network node is determined in accordance with a heartbeat messaging protocol.

Claim 16 (original): The method of claim 11, wherein a recovery process is initiated on a failed network node in accordance with a restart protocol.

Claim 17 (original): The method of claim 16, wherein a restart of a failed node process is initiated by transmitting a request to a process execution service operating on the failed network node.

Claim 18 (original): The method of claim 11, further comprising transmitting a node status message to a network management module operating at a network management network node.

Claim 19 (original): The method of claim 11, further comprising launching into the network a plurality of recovery modules, each configured to migrate from one network node to another, determine the status of a network node, and initiate a recovery process on a failed network node.

Claim 20 (currently amended): A computer program for managing a plurality of distributed nodes of a network, the computer program residing on a computer-readable medium and comprising computer-readable instructions for causing a computer to:

migrate the computer program from one network node to a series of successive network nodes ~~another~~;

determine a status of each [[a]] network node to which the computer program is migrated; and

initiate a recovery process on each network node to which the computer program is migrated and is determined to have failed ~~a failed network node~~.

Claim 21 (new): The system of claim 1, wherein the recovery module is a software object that is instantiatable by a respective operating environment on each network node.

Claim 22 (new): The system of claim 21, wherein the operating environment on each of the network nodes provides the recovery module with access to status monitoring resources, recovery resources, and native operative system resources that are available at each of the network nodes.

Claim 23 (new): The system of claim 1, wherein, upon migrating from a first one of the network nodes to a second one of the network nodes and being instantiated on the second node, the recovery module determines a status of the second network node.

Claim 24 (new): The system of claim 23, wherein the recovery module initiates the recovery process on the second node in response to a determination that the second node has failed.

Claim 25 (new): The system of claim 23, wherein the recovery module is configured to migrate to a third one of the network nodes after determining the status of the second network node.